BRUHATH BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work: Estimate for Improvements to Burial Grounds and Crematorium in Ward No. 07, Byatarayanapura.

	007-18-000019	14th Finance P-3291			Estimate Cost:			9900000.00	
Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	Byatarayanapura burial ground Capound wall		2	140.00	1.00	0.90	252.00		
			2	100.00	1.00	0.90	180.00		
	Chain Link Fencing Hebbala Brial Ground		1	124.00	1.00	0.90	111.60		
			1	15.00	1.00	0.90	13.50		
	Chain Link Fencing Kasinagara Brial Ground General		1	29.00	1.00	0.90	26.10		
	"		1	62.00	1.00	0.90	55.80		
	Chain Link Fencing Kasinagara Brial Ground SC/ST		1	91.00	1.00	0.90	81.90		
	"		1	17.00	1.00	0.90	15.30		
	"		1	15.00	1.00	0.90	13.50		
	Chain Link Fencing Sahakaranagara Brial Ground		1	14.00	1.00	0.90	12.60		
	"		1	8.00	1.00	0.90	7.20		
	"		1	8.00	1.00	0.90	7.20		
	"		1	22.00	1.00	0.90	19.80		
	"		1	28.00	1.00	0.90	25.20		
	"		1	30.00	1.00	0.90	27.00		
	For Gate Pillers		6	1.35	1.35	1.20	13.12		
							861.82	199.36	**171817.00**
	Basic Rate	82.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(P.No. 12/I.No. 4.2 of CSR 2016-17)**	Cum							
	For Foundation								
	Byatarayanapura burial ground Capound wall		2	140.00	1.00	0.15	42.00		
			2	100.00	1.00	0.15	30.00		
	Chain Link Fencing Hebbala Brial Ground		1	124.00	1.00	0.15	18.60		
			1	15.00	1.00	0.15	2.25		
	Chain Link Fencing Kasinagara Brial Ground General		1	29.00	1.00	0.15	4.35		
	"		1	62.00	1.00	0.15	9.30		
	Chain Link Fencing Kasinagara Brial Ground SC/ST		1	91.00	1.00	0.15	13.65		
	"		1	17.00	1.00	0.15	2.55		
	"		1	15.00	1.00	0.15	2.25		
	Chain Link Fencing Sahakaranagara Brial Ground		1	14.00	1.00	0.15	2.10		
	"		1	8.00	1.00	0.15	1.20		
	"		1	8.00	1.00	0.15	1.20		
	"		1	22.00	1.00	0.15	3.30		
	"		1	28.00	1.00	0.15	4.20		
	"		1	30.00	1.00	0.15	4.50		
			1	44.00	1.00	0.15	6.60		
	For Gate Pillers		6	1.35	1.35	0.15	1.64		
	Basic Rate	5046.00					**149.69**	5348.76	**800657.00**
	Area Weightage @ 6%	302.76							
	Total	**5348.76**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of Design mix M20** with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc.,** including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 12, Item No. 4.11, PWD SR 2016-17**	Cum							
	Gate Piller		6	1.20	1.20	0.60	5.18		
			6	0.23	0.23	3.00	0.95		
	Basic Rate	6011.00					**6.14**	6371.66	**39098.00**
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**								
	Consider 90 Kg/Cum		0.09	6.14			0.55		
	Basic Rate	60607.00					**0.55**	64243.42	**35479.00**
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
5	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness,** including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**								
	Columns Footing		6	4.80		0.60	17.28		
			6	0.92		3.00	16.56		

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	293.00					**33.84**	310.58	**10510.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
6	KSRB 2.8 : Providing and **Filling in foundation with granite / trap broken metal** 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS **Page No. 5 / Item No. 2.15 of PWD SR 2016-17**	Cum							
	Byatarayanapura burial ground Capound wall		2	140.00	1.00	0.30	84.00		
			2	100.00	1.00	0.30	60.00		
	Basic Rate	2114.00					**144.00**	2240.84	**322681.00**
	Area Weightage @ 6%	126.84							
	Total	**2240.84**							
7	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**	Cum							
	Byatarayanapura burial ground Capound wall		2	140.00	0.75	0.60	126.00		
			2	100.00	0.75	0.60	90.00		
	Chain Link Fencing Hebbala Brial Ground		1	124.00	0.75	0.60	55.80		
			1	15.00	0.75	0.60	6.75		
	Chain Link Fencing Kasinagara Brial Ground General		1	29.00	0.75	0.60	13.05		
	"		1	62.00	0.75	0.60	27.90		
	Chain Link Fencing Kasinagara Brial Ground SC/ST		1	91.00	0.75	0.60	40.95		
	"		1	17.00	0.75	0.60	7.65		
	"		1	15.00	0.75	0.60	6.75		
	Chain Link Fencing Sahakaranagara Brial Ground		1	14.00	0.75	0.60	6.30		
	"		1	8.00	0.75	0.60	3.60		
	"		1	8.00	0.75	0.60	3.60		
	"		1	22.00	0.75	0.60	9.90		
	"		1	28.00	0.75	0.60	12.60		
	"		1	30.00	0.75	0.60	13.50		
			1	44.00	0.75	0.60	19.80		
	Basic Rate	4187.00					**444.15**	4438.22	**1971235.00**
	Area Weightage @ 6%	251.22							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**4438.22**							
8	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	Byatarayanapura burial ground Capound wall		2	140.00	0.45	0.60	75.60		
			2	100.00	0.45	0.60	54.00		
	Chain Link Fencing Hebbala Brial Ground		1	124.00	0.45	0.45	25.11		
			1	15.00	0.45	0.45	3.04		
	Chain Link Fencing Kasinagara Brial Ground General		1	29.00	0.45	0.45	5.87		
	"		1	62.00	0.45	0.45	12.56		
	Chain Link Fencing Kasinagara Brial Ground SC/ST		1	91.00	0.45	0.45	18.43		
	"		1	17.00	0.45	0.45	3.44		
	"		1	15.00	0.45	0.45	3.04		
	Chain Link Fencing Sahakaranagara Brial Ground		1	14.00	0.45	0.45	2.84		
	"		1	8.00	0.45	0.45	1.62		
	"		1	8.00	0.45	0.45	1.62		
	"		1	22.00	0.45	0.45	4.46		
	"		1	28.00	0.45	0.45	5.67		
	"		1	30.00	0.45	0.45	6.08		
			1	44.00	0.45	0.45	8.91		
	Basic Rate	5005.00					**232.27**	5305.30	**1232249.00**
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							
9	KSRB 15.1.3 Providing **ruled pointing** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.3. PWD SR 2016-17**	Sqm							
	Byatarayanapura burial ground Capound wall		4	140.00		0.60	336.00		
			4	100.00		0.60	240.00		
	Chain Link Fencing Hebbala Brial Ground		2	124.00		0.45	111.60		
			2	15.00		0.45	13.50		
	Chain Link Fencing Kasinagara Brial Ground General		2	29.00		0.45	26.10		
	"		2	62.00		0.45	55.80		
	Chain Link Fencing Kasinagara Brial Ground SC/ST		2	91.00		0.45	81.90		
	"		2	17.00		0.45	15.30		

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	"		2	15.00		0.45	13.50		
	Chain Link Fencing Sahakaranagara Brial Ground		2	14.00		0.45	12.60		
	"		2	8.00		0.45	7.20		
	"		2	8.00		0.45	7.20		
	"		2	22.00		0.45	19.80		
	"		2	28.00		0.45	25.20		
	"		2	30.00		0.45	27.00		
			2	44.00		0.45	39.60		
	Basic Rate	98.00					**1032.30**	103.88	**107235.00**
	Area Weightage @ 6%	5.88							
	Total	**103.88**							
10	KSRB 4-1.5 : Providing and laying in position **plain cement concrete of mix M20** with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (**P.No.12, I.No. 4.5 of PWD SR 2016-17**)	Cum							
	Byatarayanapura burial ground Capound wall		2	140.00	0.45	0.10	12.60		
			2	100.00	0.45	0.10	9.00		
	Chain Link Fencing Hebbala Brial Ground		1	124.00	0.45	0.10	5.58		
			1	15.00	0.45	0.10	0.68		
	Chain Link Fencing Kasinagara Brial Ground General		1	29.00	0.45	0.10	1.31		
	"		1	62.00	0.45	0.10	2.79		
	Chain Link Fencing Kasinagara Brial Ground SC/ST		1	91.00	0.45	0.10	4.10		
	"		1	17.00	0.45	0.10	0.77		
	"		1	15.00	0.45	0.10	0.68		
	Chain Link Fencing Sahakaranagara Brial Ground		1	14.00	0.45	0.10	0.63		
	"		1	8.00	0.45	0.10	0.36		
	"		1	8.00	0.45	0.10	0.36		
	"		1	22.00	0.45	0.10	0.99		
	"		1	28.00	0.45	0.10	1.26		
	"		1	30.00	0.45	0.10	1.35		
	"		1	44.00	0.45	0.10	1.98		
	Basic Rate	5542.00					**44.42**	5874.52	**260917.00**
	Area Weightage @ 6%	332.52							
	Total	**5874.52**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 5-14 : Providing and constructing load bearing wall with **solid concrete blocks of size 400x150x200 mm having block** density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.26.2, PWD SR 2016-17**	Sqm							
	Byatarayanapura burial ground Capound wall		2	140.00		2.70	756.00		
			2	100.00		2.70	540.00		
	Basic Rate	907.00					**1296.00**	961.42	**1246000.00**
	Area Weightage @ 6%	54.42							
	Total	**961.42**							
12	KSRB15-3.3 : Providing 12mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No.112/ Item No. 15.11, PWD SR 2016-17**	Sqm							
	Byatarayanapura burial ground Capound wall		4	140.00		2.85	1596.00		
			4	100.00		2.85	1140.00		
			4	60.00		2.85	684.00		
			4	50.00		2.85	570.00		
	Basic Rate	150.00					**3990.00**	159.00	**634410.00**
	Area Weightage @ 6%	9.00							
	Total	**159.00**							
13	KSRB 15-16.1 : Providing and finishing external walls in two coats with **waterproof cement paint** of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. **Page No. 117 / Item No. 15.53.2, SR 2016-17.**	Sqm							
			Qty Vide Item No. 16				3990.00		
	Basic Rate	84.00					**3990.00**	89.04	**355270.00**
	Area Weightage @ 6%	5.04							
	Total	**89.04**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Supplying and fixing **M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) **Page No. 262 / Item No. 37.2, PWD SR 2016-17**	m							
	For Chain Link Fenicing		52	2.40			124.80		
			7	2.40			16.80		
			17	2.40			40.80		
			13	2.40			31.20		
			26	2.40			62.40		
			38	2.40			91.20		
			7	2.40			16.80		
			6	2.40			14.40		
			6	2.40			14.40		
			4	2.40			9.60		
			4	2.40			9.60		
			9	2.40			21.60		
			12	2.40			28.80		
			13	2.40			31.20		
			14	2.40			33.60		
	Basic Rate	819.00					**547.20**	868.14	**475046.00**
	Area Weightage @ 6%	49.14							
	Total	**868.14**							
15	Providing and fixing **M.S. Block pipe** of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. **Page No. 262 / Item No. 37.4, PWD SR 2016-17**	m							
	Chain Link Fencing Hebbala Brial Ground		3	124.00			372.00		
			3	15.00			45.00		
	Chain Link Fencing Hebbala Cremotorium		3	40.00			120.00		
	Chain Link Fencing Kasinagara Brial Ground General		3	29.00			87.00		

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	"		3	62.00			186.00		
	Chain Link Fencing Kasinagara Brial Ground SC/ST		3	91.00			273.00		
	"		3	17.00			51.00		
	"		3	15.00			45.00		
	Chain Link Fencing Sahakaranagara Brial Ground		3	14.00			42.00		
	"		3	8.00			24.00		
	"		3	8.00			24.00		
	"		3	22.00			66.00		
	"		3	28.00			84.00		
	"		3	30.00			90.00		
			3	44.00			132.00		
	Basic Rate	324.00					**1641.00**	343.44	**563585.00**
	Area Weightage @ 6%	19.44							
	Total	**343.44**							
16	Providing **chain link fencing** 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint **Page No. 262 / Item No. 37.3, PWD SR 2016-17**	Sqm							
	Chain Link Fencing Hebbala Brial Ground		1	124.00		1.80	223.20		
			1	15.00		1.80	27.00		
	Chain Link Fencing Kasinagara Brial Ground General		1	29.00		1.80	52.20		
	"		1	62.00		1.80	111.60		
	Chain Link Fencing Kasinagara Brial Ground SC/ST		1	91.00		1.80	163.80		
	"		1	17.00		1.80	30.60		
	"		1	15.00		1.80	27.00		
	Chain Link Fencing Sahakaranagara Brial Ground		1	14.00		1.80	25.20		
	"		1	8.00		1.80	14.40		
	"		1	8.00		1.80	14.40		
	"		1	22.00		1.80	39.60		
	"		1	28.00		1.80	50.40		
	"		1	30.00		1.80	54.00		
			1	44.00		1.80	79.20		
	Basic Rate	659.00					**912.60**	698.54	**637488.00**
	Area Weightage @ 6%	39.54							
	Total	**698.54**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	Providing and fixing **M.S. Gate** as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. **Page. No. 43 / Item. No. 7.37 PWD SR 2016-17**	Sqm							
			3	3.25	1.80		17.55		
	Basic rate	2934.00					**17.55**	3110.04	**54581.00**
	Add 6% AW	176.04							
	Total	**3110.04**							
	Sub Total								**8918258.00**
	Tender Premium @ 10%								**891826.00**
	Third Party Inspection Charges @ 1%								**89183.00**
	Miscellaneous and unforeseen charges	LS							**733.00**
								Total	**9900000.00**
Rupees Ninety Nine Lakh(s) Only									

ADMINISTRATIVE APPROVAL
Accorded For Rs. Ninety Nine lakhs only
Head of A/c. P-3291
Div. Ref. No. 164/17-18 Date. 12/01/18
AE
EE(BTP) 12/1

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 07

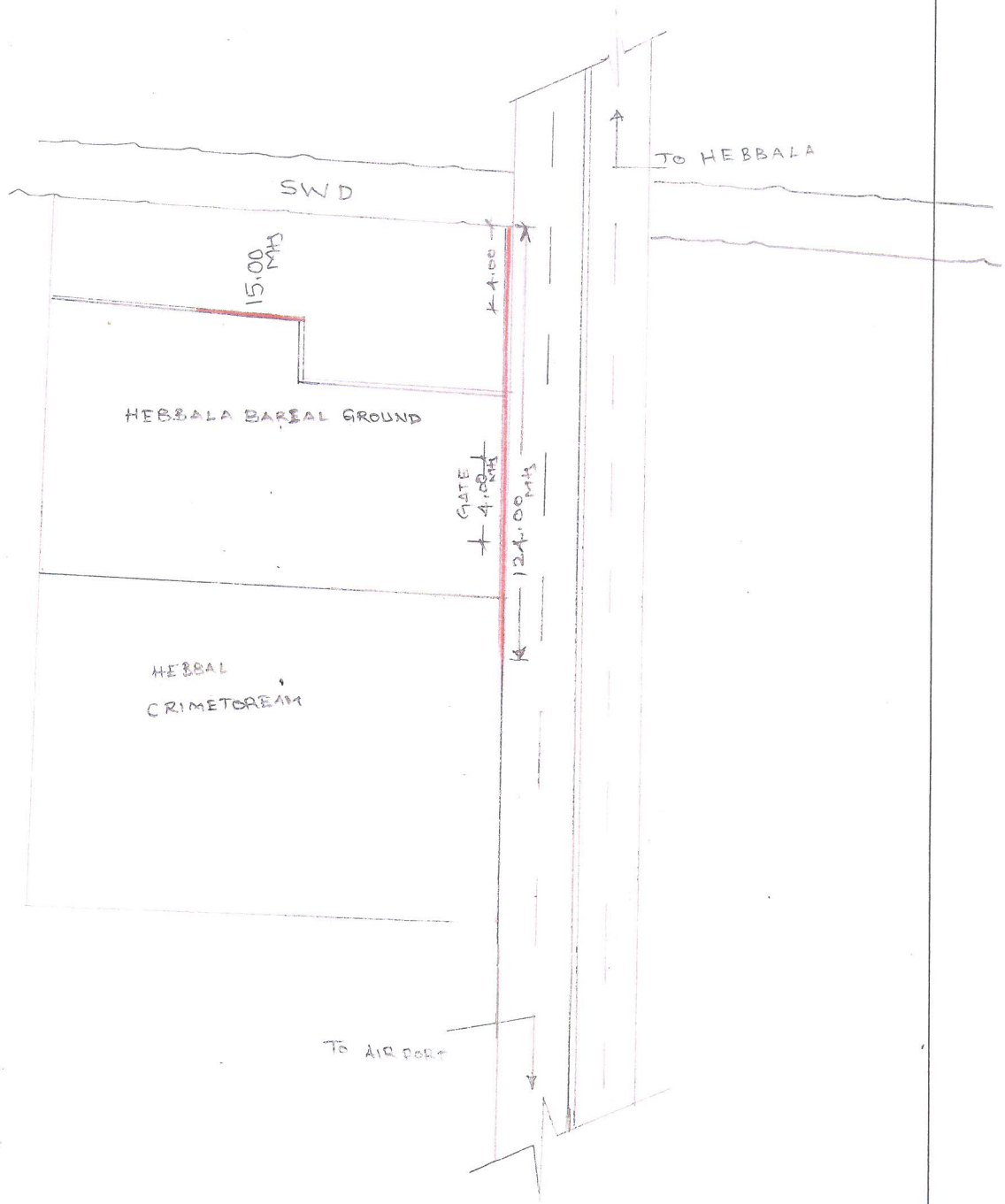
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction
Accorded For Ninetynine lakhs only
Head of A/C. P-3291
CER NO TS/508/17-18 Dt. 12.01.18

TA CE (YNK)

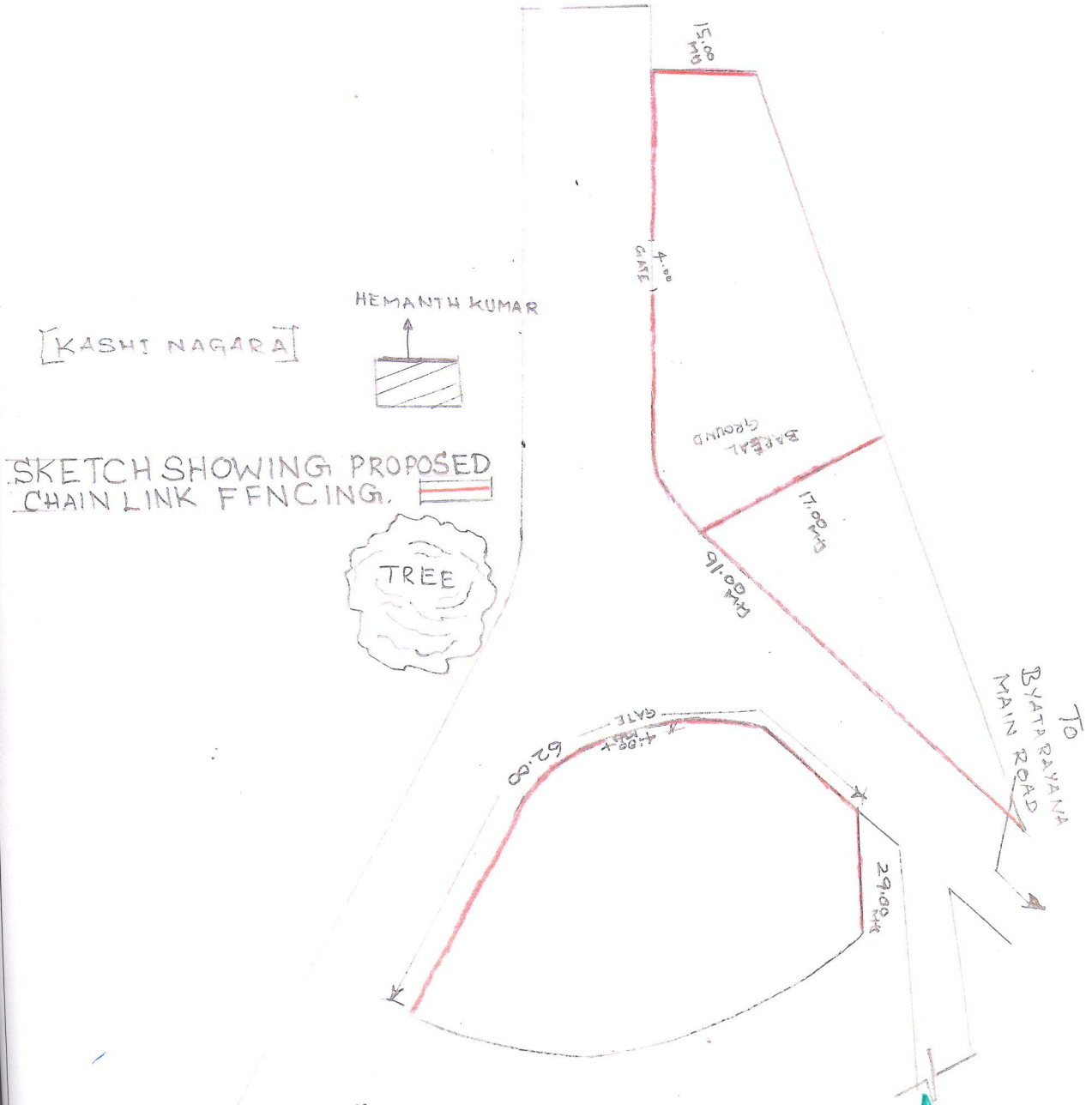
Name of Work: Improvements to Burial Grounds and Crematorium in Ward No. 07, Byatarayanapura.



Assistant Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division

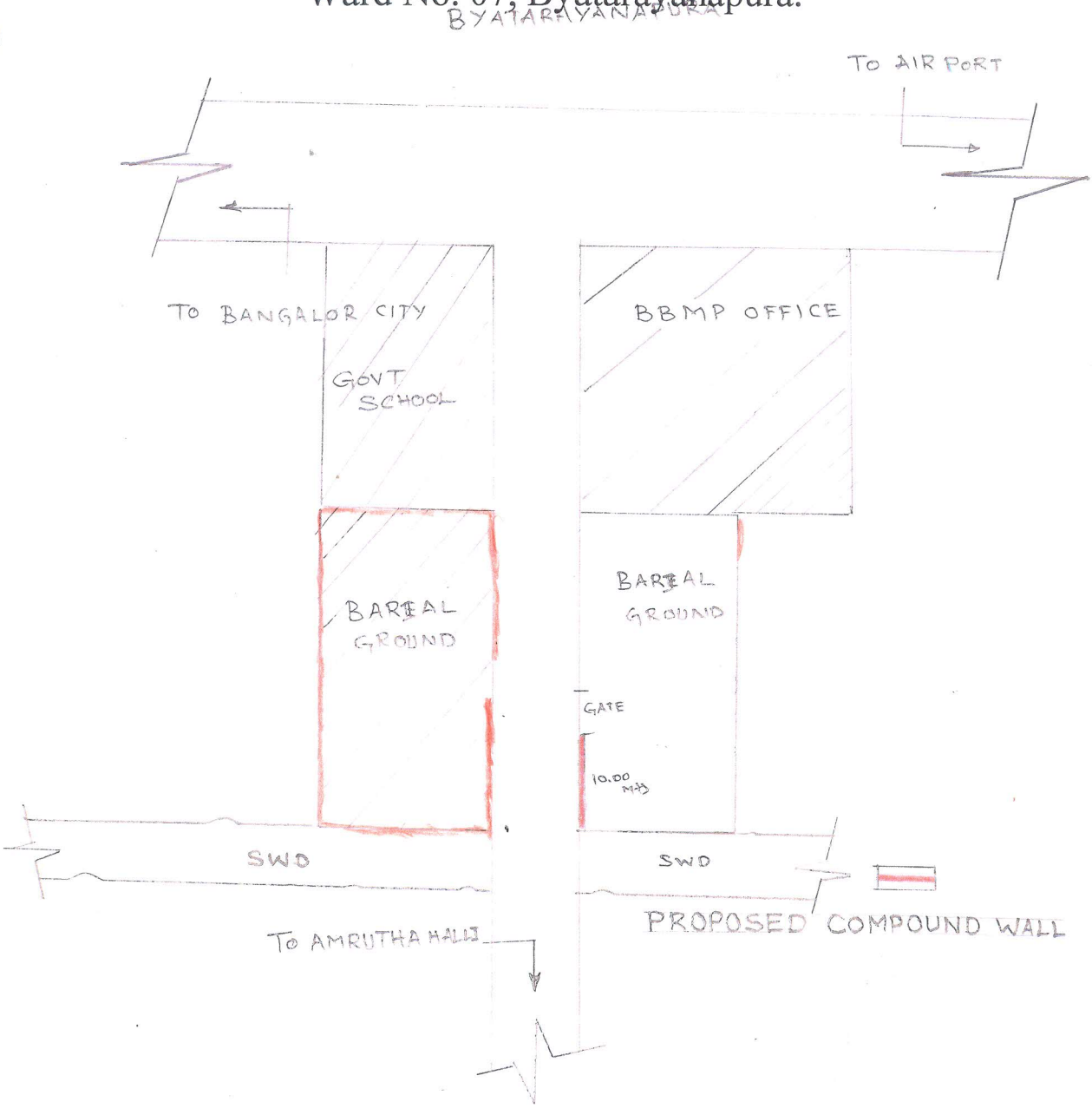
Name of Work: Improvements to Burial Grounds and Crematorium in Ward No. 07, Byatarayanapura.



Assistant Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division

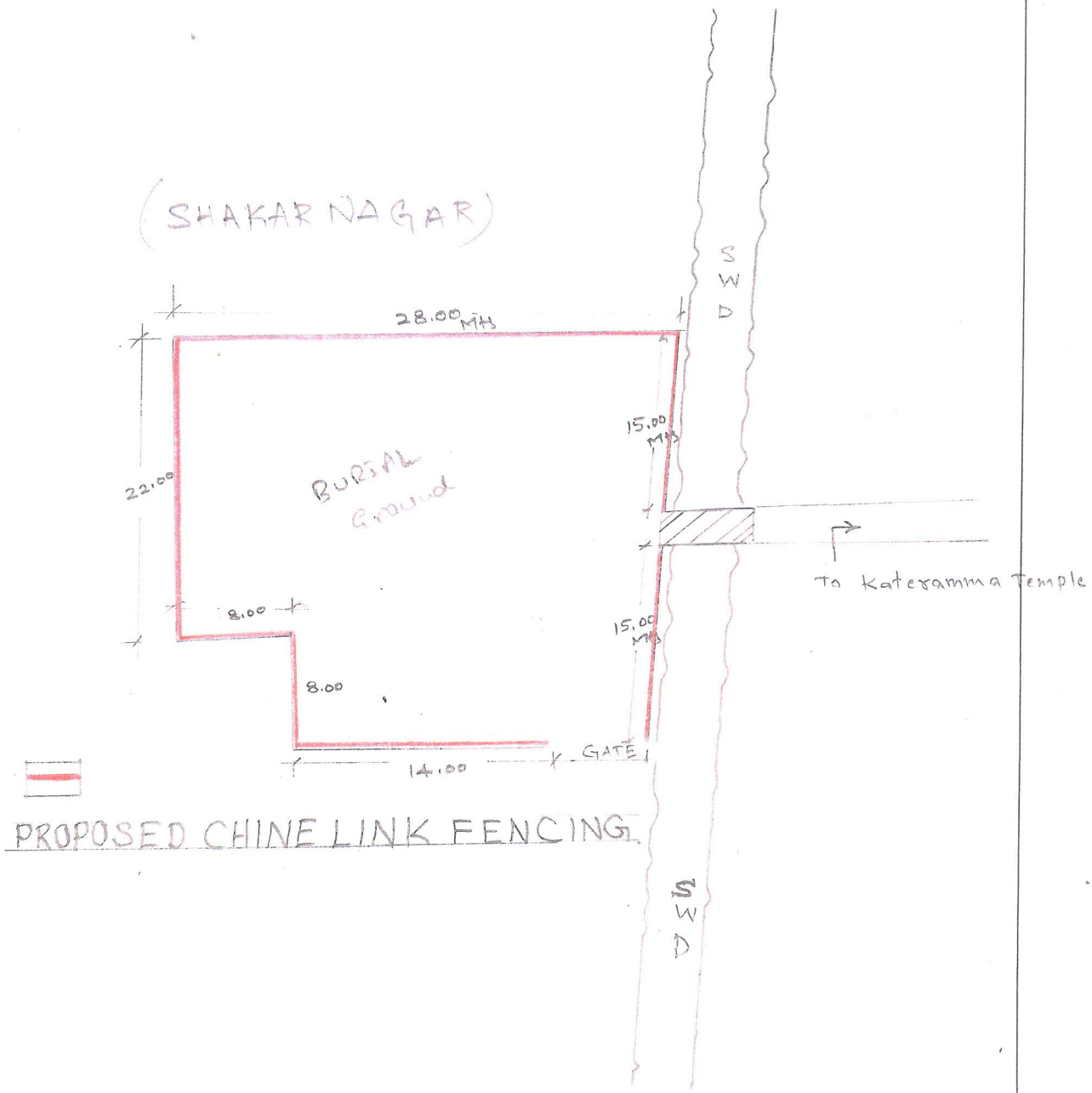
Name of Work: Improvements to Burial Grounds and Crematorium in Ward No. 07, Byatarayanapura.



Assistant Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division

Name of Work: Improvements to Burial Grounds and Crematorium in Ward No. 07, Byatarayanapura.



Assistant Engineer

Assistant Executive Engineer